

**PG CBCS**  
**M.SC. Semester-III Examination 2021**  
**MEDICAL LABORATORY TECHNOLOGY**  
**PAPER: MLT 395B (PRACTICAL)**  
**(BACTERIOLOGY AND MYCOLOGY LAB)**

**Full Marks: 50****Time: 4 Hours****Answer any TWO questions of the following:****2X25=50**

1. Write down the principle, requirements, and procedure of acid fast staining. State the identifying characters of *Aspergillus niger*. (3+4+8)+10
2. State the principle, requirements, and procedure to detect the minimum inhibitory concentration of an antibiotic. 3+7+15
3. Briefly describe the principle, requirements, and procedure of Widal test. 3+7+15
4. State the principle, requirements, and procedure of indole and citrate test. 3+7+15
5. Write down the principle, requirements, and procedure methyl red and Voges proskauer test. 3+7+15
6. Enumerate *Escherichia coli* from a urine sample. Determine antibiotic sensitivity of the isolates. Write principle, requirements, and procedure of the above tests. 4+4+(3+4+6)

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